IN THE CLAIMS

1. (Currently Amended) An automatic analyzer comprising;

a reaction vessel having a prismatic shape in which a ~~where~~ solution specimen is mixed with a reagent to react therewith ~~it~~,

a reaction disk which holds a plurality of said reaction vessels thereon,

a light source to apply light to said reaction solution, and

an analysis unit to analyze light passing through said reaction solution;

wherein said automatic analyzer further comprises an agitator to apply ultrasonic waves to said reaction solution and to agitate said reaction solution, and

wherein the direction of the ultrasonic waves emitted from said agitator and the direction of the light applied to said reaction solution are deviated from each other to the extent to which the surface exposed to ultrasonic waves on said reaction vessel does not overlap the surface exposed to light and said surfaces of said reaction vessels are located substantially at an angle of 45 degrees relative to a radial direction of said reaction disk.

2. (Currently Amended) An automatic analyzer according to Claim 1 wherein

the surface exposed to ultrasonic waves on said reaction vessel has ~~thea~~ size formed by projecting the size of the electrode surface of the ultrasonic wave transmitter of said agitator into the surface of said reaction vessel, while the surface exposed to light has ~~thea~~ size formed by projecting on the surface of said reaction vessel the size of the lens which the light emitted from the light source last passes through.

3-4. Canceled.

5. (Currently Amended) An automatic analyzer comprising;

a reaction vessel having a prismatic shape where a solution specimen is mixed with reagent to react therewith ~~it~~,

a reaction disk which holds a plurality of said reaction vessels thereon,

a light source to apply light to said reaction solution and

an analysis unit to analyze light passing through said reaction solution;

wherein said automatic analyzer further comprises an agitator to apply ultrasonic waves to said reaction solution and to agitate said reaction solution, ~~and~~

wherein ultrasonic waves coming from said agitator and light applied to said reaction solution can be emitted simultaneously, and

wherein surfaces of said reaction vessels are located substantially at an angle of 45 degrees relative to a radial direction of said reaction disk.

6. (Currently Amended) An automatic analyzer according to Claim 1, wherein ~~further characterized in that said reaction vessel has a form of prism and the surface exposed to ultrasonic wave emitted from said agitator is different from the surface exposed to light applied to said reaction solution~~said surface exposed to ultrasonic waves is a side surface of said reaction vessel.

7. (Currently Amended) An automatic analyzer according to Claim 5, wherein ~~further characterized in that~~ irradiation conditions of ultrasonic waves coming from said agitator are controlled, based on the result of analyzing the light passing through said reaction solution.

8. (Currently Amended) An automatic analyzer according to Claim 5, wherein ~~further characterized in that the~~ a reagent for agitation and regulation can be used to analyze the light passing through reaction solution and to determine the optimum irradiation conditions of ultrasonic waves.

9. (Currently Amended) An automatic analyzer according to

Claim 8, wherein ~~further characterized in that~~ said optimum irradiation conditions of ultrasonic waves are stored in a memory and ultrasonic wave irradiation conditions are determined in the analysis using ~~the~~a reagent other than that for agitation and regulation, based on said irradiation conditions.

10. (Canceled)

11. (New) An automatic analyzer according to Claim 5, wherein said surface exposed to ultrasonic waves is a side surface of said reaction vessel.